

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/820,777A
Source: IFW/6
Date Processed by STIC: 11/3/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 11/03/2006

PATENT APPLICATION: US/10/820,777A

TIME: 17:05:49

Input Set : A:\Third Amended Seq Listing 683884-2US.txt

Output Set: N:\CRF4\11032006\J820777A.raw

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2 <110> APPLICANT: Cheng, Winston T.K.
3   Chen, Chuan-Mu
4   Lin, Shwu-Wha
5   Wang, Chih-Hong
6   Lin, Chih-Jen
7   Wu, Shinn-Chih
9 <120> TITLE OF INVENTION: Method for producing biologically active human factor VIII
10   in the milk of transgenic animals driven by mammary-specific
11   expression cassettes
13 <130> FILE REFERENCE: 683884-2US
15 <140> CURRENT APPLICATION NUMBER: US 10/820,777A
16 <141> CURRENT FILING DATE: 2004-04-09
18 <160> NUMBER OF SEQ ID NOS: 15
20 <170> SOFTWARE: PatentIn version 3.2
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 63
24 <212> TYPE: DNA
25 <213> ORGANISM: Artificial
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Synthetic
30 <400> SEQUENCE: 1
31 atgatgtcct ttgtctctct gctcctggta ggcatactat tccatgccac ccaggctgtt      60
33 aac                                                                    63
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 50
38 <212> TYPE: DNA
39 <213> ORGANISM: Artificial
41 <220> FEATURE:
42 <223> OTHER INFORMATION: Synthetic
44 <400> SEQUENCE: 2
45 atgaaacttc tcatacttac ctgtcttgtg gctgttgctg ccaggttaac      50
48 <210> SEQ ID NO: 3
49 <211> LENGTH: 22
50 <212> TYPE: DNA
51 <213> ORGANISM: Homo sapiens
53 <400> SEQUENCE: 3
54 ggttaactgc caccagaaga ta      22
57 <210> SEQ ID NO: 4
58 <211> LENGTH: 20
59 <212> TYPE: DNA
60 <213> ORGANISM: Homo sapiens
62 <400> SEQUENCE: 4
63 aagcttcttg gttcaatggc      20

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66 <210> SEQ ID NO: 5
67 <211> LENGTH: 25
68 <212> TYPE: DNA
69 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 5
72 aagcttgaaa cgccatcaac gggaa 25
75 <210> SEQ ID NO: 6
76 <211> LENGTH: 24
77 <212> TYPE: DNA
78 <213> ORGANISM: Homo sapiens
80 <400> SEQUENCE: 6
81 ctcgagcctc agtagaggtc ctgt 24
84 <210> SEQ ID NO: 7
85 <211> LENGTH: 20
86 <212> TYPE: DNA
87 <213> ORGANISM: Homo sapiens
89 <400> SEQUENCE: 7
90 ctctcttgtc atcctcttcc 20
93 <210> SEQ ID NO: 8
94 <211> LENGTH: 21
95 <212> TYPE: DNA
96 <213> ORGANISM: Homo sapiens
98 <400> SEQUENCE: 8
99 ggttacgcgt caagattctg a 21
102 <210> SEQ ID NO: 9
103 <211> LENGTH: 20
104 <212> TYPE: DNA
105 <213> ORGANISM: Homo sapiens
107 <400> SEQUENCE: 9
108 agactttcgg aacagaggca 20
111 <210> SEQ ID NO: 10
112 <211> LENGTH: 22
113 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
116 <400> SEQUENCE: 10
117 atctttttcc aggtcaacat ca 22
120 <210> SEQ ID NO: 11
121 <211> LENGTH: 23
122 <212> TYPE: DNA
123 <213> ORGANISM: Homo sapiens
125 <400> SEQUENCE: 11
126 cattctattc atttcagtgg aca 23
129 <210> SEQ ID NO: 12
130 <211> LENGTH: 22
131 <212> TYPE: DNA
132 <213> ORGANISM: Homo sapiens
134 <400> SEQUENCE: 12
135 gagatgtaga ggctggagaa ct 22
138 <210> SEQ ID NO: 13

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139 <211> LENGTH: 19
140 <212> TYPE: PRT
141 <213> ORGANISM: Bovine
143 <400> SEQUENCE: 13
144 Met Met Ser Phe Val Ser Leu Leu Leu Val Gly Ile Leu Phe His
145           5              10              15
146 Ala Thr Glu Ala
149 <210> SEQ ID NO: 14
150 <211> LENGTH: 15
151 <212> TYPE: PRT
152 <213> ORGANISM: Bovine
154 <400> SEQUENCE: 14
155 Met Lys Leu Leu Ile Leu Thr Cys Leu Val Ala Val Ala Ala Arg
156           5              10              15
159 <210> SEQ ID NO: 15
160 <211> LENGTH: 1448
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Bovine-Homo sapiens fusion protein
167 <400> SEQUENCE: 15
168 Met Lys Leu Leu Ile Leu Thr Cys Leu Val Ala Val Ala Ala Arg Leu
169           5              10              15
170 Thr Ala Thr Arg Arg Tyr Tyr Leu Gly Ala Val Glu Leu Ser
171           20              25              30
172 Trp Asp Tyr Met Gln Ser Asp Leu Gly Glu Leu Pro Val Asp Ala Arg
173           35              40              45
174 Phe Pro Pro Arg Val Pro Lys Ser Phe Pro Phe Asn Thr Ser Val Val
175           50              55              60
176 Tyr Lys Lys Thr Leu Phe Val Glu Phe Thr Asp His Leu Phe Asn Ile
177           65              70              75
178 Ala Lys Pro Arg Pro Pro Trp Met Gly Leu Leu Gly Pro Thr Ile Gln
179           80              85              90
180 Ala Glu Val Tyr Asp Thr Val Val Ile Thr Leu Lys Asn Met Ala Ser
181 95              100              105              110
182 His Pro Val Ser Leu His Ala Val Gly Val Ser Tyr Trp Lys Ala Ser
183           115              120              125
184 Glu Gly Ala Glu Tyr Asp Asp Gln Thr Ser Gln Arg Glu Lys Glu Asp
185           130              135              140
186 Asp Lys Val Phe Pro Gly Gly Ser His Thr Tyr Val Trp Gln Val Leu
187           145              150              155
188 Lys Glu Asn Gly Pro Met Ala Ser Asp Pro Leu Cys Leu Thr Tyr Ser
189           160              165              170
190 Tyr Leu Ser His Val Asp Leu Val Lys Asp Leu Asn Ser Gly Leu Ile
191 175              180              185              190
192 Gly Ala Leu Leu Val Cys Arg Glu Gly Ser Leu Ala Lys Glu Lys Thr
193           195              200              205
194 Gln Thr Leu His Lys Phe Ile Leu Leu Phe Ala Val Phe Asp Glu Gly
195           210              215              220

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196 Lys Ser Trp His Ser Glu Thr Lys Asn Ser Leu Met Gln Asp Arg Asp
197      225      230      235
198 Ala Ala Ser Ala Arg Ala Trp Pro Lys Met His Thr Val Asn Gly Tyr
199      240      245      250
200 Val Asn Arg Ser Leu Pro Gly Leu Ile Gly Cys His Arg Lys Ser Val
201 255      260      265      270
202 Tyr Trp His Val Ile Gly Met Gly Thr Thr Pro Glu Val His Ser Ile
203      275      280      285
204 Phe Leu Glu Gly His Thr Phe Leu Val Arg Asn His Arg Gln Ala Ser
205      290      295      300
206 Leu Glu Ile Ser Pro Ile Thr Phe Leu Thr Ala Gln Thr Leu Leu Met
207      305      310      315
208 Asp Leu Gly Gln Phe Leu Leu Phe Cys His Ile Ser Ser His Gln His
209      320      325      330
210 Asp Gly Met Glu Ala Tyr Val Lys Val Asp Ser Cys Pro Glu Glu Pro
211 335      340      345      350
212 Gln Leu Arg Met Lys Asn Asn Glu Glu Ala Glu Asp Tyr Asp Asp Asp
213      355      360      365
214 Leu Thr Asp Ser Glu Met Asp Val Val Arg Phe Asp Asp Asp Asn Ser
215      370      375      380
216 Pro Ser Phe Ile Gln Ile Arg Ser Val Ala Lys Lys His Pro Lys Thr
217      385      390      395
218 Trp Val His Tyr Ile Ala Ala Glu Glu Glu Asp Trp Asp Tyr Ala Pro
219      400      405      410
220 Leu Val Leu Ala Pro Asp Arg Ser Tyr Lys Ser Gln Tyr Leu Asn
221 415      420      425      430
222 Asn Gly Pro Gln Arg Ile Gly Arg Lys Tyr Lys Lys Val Arg Phe Met
223      435      440      445
224 Ala Tyr Thr Asp Glu Thr Phe Lys Thr Arg Glu Ala Ile Gln His Glu
225      450      455      460
226 Ser Gly Ile Leu Gly Pro Leu Leu Tyr Gly Glu Val Gly Asp Thr Leu
227      465      470      475
228 Leu Ile Ile Phe Lys Asn Gln Ala Ser Arg Pro Tyr Asn Ile Tyr Pro
229      480      485      490
230 His Gly Ile Thr Asp Val Arg Pro Leu Tyr Ser Arg Arg Leu Pro Lys
231 495      500      505      510
232 Gly Val Lys His Leu Lys Asp Phe Pro Ile Leu Pro Gly Glu Ile Phe
233      515      520      525
234 Lys Tyr Lys Trp Thr Val Thr Val Glu Asp Gly Pro Thr Lys Ser Asp
235      530      535      540
236 Pro Arg Cys Leu Thr Arg Tyr Tyr Ser Ser Phe Val Asn Met Glu Arg
237      545      550      555
238 Asp Leu Ala Ser Gly Leu Ile Gly Pro Leu Leu Ile Cys Tyr Lys Glu
239      560      565      570
240 Ser Val Asp Gln Arg Gly Asn Gln Ile Met Ser Asp Lys Arg Asn Val
241 575      580      585      590
242 Ile Leu Phe Ser Val Phe Asp Glu Asn Arg Ser Trp Tyr Leu Thr Glu
243      595      600      605
244 Asn Ile Gln Arg Phe Leu Pro Asn Pro Ala Gly Val Gln Leu Glu Asp

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245		610		615		620	
246	Pro	Glu	Phe	Gln	Ala	Ser	Asn
247		625		630		635	
248	Phe	Asp	Ser	Leu	Gln	Leu	Ser
249		640		645		650	
250	Tyr	Ile	Leu	Ser	Ile	Gly	Ala
251	655			660		665	
252	Ser	Gly	Tyr	Thr	Phe	Lys	His
253		675		680		685	
254	Leu	Phe	Pro	Phe	Ser	Gly	Glu
255		690		695		700	
256	Gly	Leu	Trp	Ile	Leu	Gly	Cys
257		705		710		715	
258	Met	Thr	Ala	Leu	Leu	Lys	Val
259		720		725		730	
260	Tyr	Tyr	Glu	Asp	Ser	Tyr	Glu
261	735			740		745	
262	Asn	Asn	Ala	Ile	Glu	Pro	Arg
263		755		760		765	
264	Thr	Arg	Thr	Thr	Leu	Gln	Ser
265		770		775		780	
266	Thr	Ile	Ser	Val	Glu	Met	Lys
267		785		790		795	
268	Asp	Glu	Asn	Gln	Ser	Pro	Arg
269		800		805		810	
270	Phe	Ile	Ala	Ala	Val	Glu	Arg
271	815			820		825	
272	Pro	His	Val	Leu	Arg	Asn	Arg
273		835		840		845	
274	Lys	Lys	Val	Val	Phe	Gln	Glu
275		850		855		860	
276	Leu	Tyr	Arg	Gly	Glu	Leu	Asn
277		865		870		875	
278	Ile	Arg	Ala	Glu	Val	Glu	Asp
279		880		885		890	
280	Ala	Ser	Arg	Pro	Tyr	Ser	Phe
281	895			900		905	
282	Asp	Gln	Arg	Gln	Gly	Ala	Glu
283		915		920		925	
284	Glu	Thr	Lys	Thr	Tyr	Phe	Trp
285		930		935		940	
286	Lys	Asp	Glu	Phe	Asp	Cys	Lys
287		945		950		955	
288	Leu	Glu	Lys	Asp	Val	His	Ser
289		960		965		970	
290	His	Thr	Asn	Thr	Leu	Asn	Pro
291	975			980		985	
292	Glu	Phe	Ala	Leu	Phe	Phe	Thr
293		995		1000		1005	

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/03/2006
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,15

VERIFICATION SUMMARY

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